



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,799	07/23/2003	Richard Douglas Schultz	050337-1610 (06CXT0023WL)	9023
7590	07/11/2008	Scott A. Horstemeier, Esq. THOMAS, KAYDEN, HORSTMEYER & RISLEY, L.L.P. 100 Galleria Parkway, Suite 1750 Atlanta, GA 30339	EXAMINER BATES, KEVIN T	
ART UNIT	PAPER NUMBER		2153	
MAIL DATE	DELIVERY MODE			
07/11/2008	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/625,799	Applicant(s) SCHULTZ ET AL.
	Examiner KEVIN BATES	Art Unit 2153

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 24 June 2008.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-8 and 15-26 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-8 and 15-26 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-146/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application
 6) Other: _____

Response to Amendment

This Office Action is in response to a communication made on June 24, 2008.

Claims 9-14 have been cancelled.

Claims 1, 3, 15-21 and 23 have been amended.

Claims 1-8 and 15-26 are pending in this application.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The specification does not include any support for the computer-readable medium as now recited in claim 15 and 21.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-2, 4-8, 15-16, 18-22, and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erjanne (6490271) in view of Uemura (6430161) and in further view of Sherman (6434513).

Regarding claims 1, 15, and 21, Erjanne teaches a method for reducing loading in a software receiver for a packet based communications system comprising the steps of:

measuring the current buffer load (Column 6, lines 7 – 19);

determining that the buffer load has exceeded a predetermined threshold (Column 6, lines 7 – 19);

responsive to determining that the buffer has exceeded a predetermined threshold, entering a power save mode, thereby signaling the communications system transmitter transmission to inhibit packet predetermined and packet reception (Column 5, lines 54 – 56, where if the DTE isn't receiving any traffic from the sending DTE, then it is "saving power");

monitoring the buffer load while the transmitter is inhibited (Column 6, lines 15 – 19).

determining that the buffer load has fallen below a threshold (Column 6, lines 15 – 19); and

signaling the communications system transmitter to begin transmitting packets once the buffer load has fallen below the predetermined threshold (Column 6, lines 15 – 19).

Erjanne teaches that the buffer fills up due to failure or slowness of the DTE to react, but does not explicitly indicate monitoring CPU load instead of the receive buffers wherein the CPU load measurement is based on the response time of the host CPU to a request for interrupt.

Uemura teaches a system for determining when packets to a mobile device should be inhibited (Column 7, line 66 – Column 8, line 17) which includes monitoring the CPU load of the mobile device (Column 8, lines 38 – 55).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Uemura's teaching of monitoring CPU load in Erjanne's system to improve Erjanne's monitoring of the CPU's ability of reaction, rather than the results of that ability.

Sherman teaches that CPU load can be measured in relation to measuring the response time of a request to the CPU (Column 1, lines 20 – 27).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Sherman's teaching in the combination of Erjanne and Uemura to determine the CPU load based on request response time in order to determine the load in terms of actual real world application response time.

Regarding claims 2, 16, and 22, Erjanne teaches a method as in claims 1, 15, and 21.

Erjanne does not explicitly indicate wherein the measurement of CPU loading is made by an operating system background task.

Uemura teaches wherein the measurement of CPU loading is made by an operating system background task (Column 4, lines 22 – 27).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Uemura's teaching of monitoring CPU load in Erjanne's

system to improve Erjanne's monitoring of the CPU's ability of reaction, rather than the results of that ability.

Regarding claims 4, 18, and 24, Erjanne teaches a method as in claims 1, 15, and 21 wherein the transmitter signaling is performed during the power save mode (Column 5, lines 54 – 56, where if the DTE isn't receiving any traffic from the sending DTE, then it is "saving power").

Regarding claims 5, 19, and 25, Erjanne teaches a method as in claims 1, 15, and 21, in which the communications system is wireless (Column 3, lines 8 - 24).

Regarding claims 6, 7, 8, 20, and 26, Erjanne teaches the method of claims 1, 15, and 20 and discloses that the communications system is wireless.

Erjanne does not explicitly indicate that the communications system can be IEEE 802.11 wireless local area network (WLAN), Bluetooth, or IEEE 802.15 wireless personal area network (PAN).

Examiner takes Official Notice (see MPEP § 2144.03) that "adding support for IEEE 802.11 wireless local area network (WLAN), Bluetooth, or IEEE 802.15 wireless personal area network (PAN) would be obvious because Erjanne's system is meant to be used within any wireless communication system".

Claims 3, 17, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erjanne in view of Uemura and Sherman, and in further view of Beach (7126945).

Regarding claims 3, 17, and 23, Erjanne teaches a method as in claims 1, 15, and 22.

Erjanne does not explicitly indicate power save mode is entered by setting a PS bit in a frame control word.

Beach teaches a method of inhibiting packets and entering power save mode by setting a bit in a frame (Col. 3, lines 42- Col. 4, line 4).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Beach's teaching of using a power management function bit to initiate packet buffering in Erjanne to take advantage of pre-existing functions to perform the packet inhibition instead of a new more complex messaging design.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN BATES whose telephone number is (571)272-3980. The examiner can normally be reached on 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on (571) 272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin Bates/
Primary Examiner, Art Unit 2153